Journal of Turbomachinery

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, and E indicates Errata.

Acharya, Sumanta — (see Agarwal, Peeyush) **125,** 726–733
____ (see Tyagi, Mayank) **125,** 734–742
Agarwal, Peeyush, Acharya, Sumanta, and Nikitopoulos, D. E. — Heat Transfer in 1:4 Rectangular Passages with Rotation. **125,** 726–733
Ahn, Jaeyong — (see Kwak, Jae Su) **125,** 778–787
Ainsworth, R. W. — (see Miller, R. J.) **125,** 1–13
____ (see Miller, R. J.) **125,** 33–39
____ (see Miller, R. J.) **125,** 40–47
Al-Hadhrami, Luai — (see Griffith, Todd S.) **125,** 555–563
Al-Nahwi, Ammar A., Paduano, James D., and Nayfeh, Samir A. — Aerodynamic-Rotordynamic Interaction in Axial Compression Systems—Part I: Modeling and Analysis of Fluid-Induced Forces. **125,** 405–415
____ **, Paduano, James D., and Nayfeh, Samir A.** — Aerodynamic-Rotordynamic Interaction in Axial Compression Systems—Part II: Impact of Interaction on Overall System Stability. **125,** 416–424
Alonso, A. — (see de la Calzada, P.) **125,** 260–266
Ames, Forrest E., Barbot, Pierre A., and Wang, Chao — Effects of Aeroderivative Combustor Turbulence on Endwall Heat Transfer Distributions Acquired in a Linear Vane Cascade. **125,** 210–220
____ **, Wang, Chao, and Barbot, Pierre A.** — Measurement and Prediction of the Influence of Catalytic and Dry Low NO_x Combustor Turbulence on Vane Surface Heat Transfer. **125,** 221–231
Arts, Tony — (see Coton, Thomas) **125,** 281–290
Ashpis, David E. — (see Suzen, Y. B.) **125,** 455–464

Bakhtari, K. — (see Taslim, M. E.) **125,** 682–691
Barbot, Pierre A. — (see Ames, Forrest E.) **125,** 210–220
____ (see Ames, Forrest E.) **125,** 221–231
Barrett, Michael J., and Hollingsworth, D. Keith — Heat Transfer in Turbulent Boundary Layers Subjected to Free-Stream Turbulence—Part I: Experimental Results. **125,** 232–241
____ **, and Hollingsworth, D. Keith** — Heat Transfer In Turbulent Boundary Layers Subjected to Free-Stream Turbulence—Part II: Analysis and Correlation. **125,** 242–251
Baughn, James W. — (see Byerley, Aaron R.) **125,** 114–120
Beheim, Glenn M. — (see Hunter, Gary W.) **125,** 658–664
Beisheim, J. R., and Sinclair, G. B. — On the Three-Dimensional Finite Element Analysis of Dovetail Attachments. **125,** 372–379
Bhinder, F. S. — (see Ebaid, M. S. Y.) **125,** 598–606
Boyer, Keith M., and O'Brien, Walter F. — An Improved Streamline Curvature Approach for Off-Design Analysis of Transonic Axial Compression Systems. **125,** 475–481
Boyle, Robert — (see Kwak, Jae Su) **125,** 778–787
Brennan, G., Harvey, N. W., Rose, M. G., Fomison, N., and Taylor, M. D. — Improving the Efficiency of the Trent 500-HP Turbine Using Nonaxisymmetric End Walls—Part I: Turbine Design. **125,** 497–504
Bunker, Ronald S., and Donnelian, Katherine F. — Heat Transfer and Friction Factors for Flows Inside Circular Tubes With Concavity Surfaces. **125,** 665–672
____ (see Kwak, Jae Su) **125,** 778–787
____ (see Nirmalan, Nirm V.) **125,** 83–89
Byerley, Aaron R., Störmer, Oliver, Baughn, James W., Simon, Terrence W., Van Treuren, Kenneth W., and List, Jörg — Using Gurney Flaps to Control Laminar Separation on Linear Cascade Blades. **125,** 114–120

Caguiat, Daniel E. — Rolls Royce/Allison 501-K Gas Turbine Antifouling Compressor Coatings Evaluation. **125,** 482–488
Chaluvadi, V. S. P., Kalfas, A. I., Hodson, H. P., Ohyama, H., and Watanabe, E. — Blade Row Interaction in a High-Pressure Steam Turbine. **125,** 14–24
Chambers, Andrew C., Gillespie, David R. H., Ireland, Peter T., and Dailey, Geoffrey M. — A Novel Transient Liquid Crystal Technique to Determine Heat Transfer Coefficient Distributions and Adiabatic Wall Temperature in a Three-Temperature Problem. **125,** 538–546
Chana, Kam S., and Jones, Terry V. — An Investigation on Turbine Tip and Shroud Heat Transfer. **125,** 513–520
Chen, Liangyu — (see Hunter, Gary W.) **125,** 658–664
Chen, Meng-Yu — (see Liou, Tong-Miin) **125,** 565–574
Cheng, Dah Yu — (see Golomb, Richard) **125,** 128–132
Chew, J. W. — (see Gentilhomme, O.) **125,** 505–512
Chin, Hsiang-Jung — (see Hsieh, Shou-Shing) **125,** 609–622
Cho, Hyung Hee — (see Rhee, Dong Ho) **125,** 74–82
Choi, Byeong-Keun — (see Mignolet, Marc P.) **125,** 155–164
Choi, Jong Hyun — (see Rhee, Dong Ho) **125,** 74–82
Chow, Yi-Chih — (see Uzol, Oguz) **125,** 714–725
Colban, W. F., Lethander, A. T., Thole, K. A., and Zess, G. — Combustor Turbine Interface Studies—Part 2: Flow and Thermal Field Measurements. **125,** 203–209
____ **, Thole, K. A., and Zess, G.** — Combustor Turbine Interface Studies—Part 1: Endwall Effectiveness Measurements. **125,** 193–202
Coldrick, Simon, Ivey, Paul, and Wells, Roger — Considerations for Using 3-D Pneumatic Probes in High-Speed Axial Compressors. **125,** 149–154
Copenhaver, William W. — (see Gorrell, Steven E.) **125,** 328–335
____ (see Gorrell, Steven E.) **125,** 336–345
Corral, Roque, and Gisbert, Fernando — A Numerical Investigation on the Influence of Lateral Boundaries in Linear Vibrating Cascades. **125,** 433–441
Coton, Thomas, Arts, Tony, Lefebvre, Michaël, and Liamis, Nicolas — Unsteady and Calming Effects Investigation on a Very High-Lift LP Turbine Blade—Part I: Experimental Analysis. **125,** 281–290

Dailey, Geoffrey M. — (see Chambers, Andrew C.) **125,** 538–546
Darmofal, David L. — (see Garzon, Victor E.) **125,** 692–703
Deconinck, H. — (see de Vito, L.) **125,** 310–316
de la Calzada, P., and Alonso, A. — Numerical Investigation of Heat Transfer in Turbine Cascades With Separated Flows. **125,** 260–266
Denecke, J., Schramm, V., Kim, S., and Wittig, S. — Influence of Rub-Grooves on Labyrinth Seal Leakage. **125,** 387–393
Denton, John — (see Pullan, Graham) **125,** 291–297
Desse, Jean-Michel — (see Sieverding, Claus H.) **125,** 298–309

Journal of Turbomachinery

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, and E indicates Errata.

Acharya, Sumanta — (see Agarwal, Peeyush) **125,** 726–733
____ (see Tyagi, Mayank) **125,** 734–742
Agarwal, Peeyush, Acharya, Sumanta, and Nikitopoulos, D. E. — Heat Transfer in 1:4 Rectangular Passages with Rotation. **125,** 726–733
Ahn, Jaeyong — (see Kwak, Jae Su) **125,** 778–787
Ainsworth, R. W. — (see Miller, R. J.) **125,** 1–13
____ (see Miller, R. J.) **125,** 33–39
____ (see Miller, R. J.) **125,** 40–47
Al-Hadhrami, Luai — (see Griffith, Todd S.) **125,** 555–563
Al-Nahwi, Ammar A., Paduano, James D., and Nayfeh, Samir A. — Aerodynamic-Rotordynamic Interaction in Axial Compression Systems—Part I: Modeling and Analysis of Fluid-Induced Forces. **125,** 405–415
____ **, Paduano, James D., and Nayfeh, Samir A.** — Aerodynamic-Rotordynamic Interaction in Axial Compression Systems—Part II: Impact of Interaction on Overall System Stability. **125,** 416–424
Alonso, A. — (see de la Calzada, P.) **125,** 260–266
Ames, Forrest E., Barbot, Pierre A., and Wang, Chao — Effects of Aeroderivative Combustor Turbulence on Endwall Heat Transfer Distributions Acquired in a Linear Vane Cascade. **125,** 210–220
____ **, Wang, Chao, and Barbot, Pierre A.** — Measurement and Prediction of the Influence of Catalytic and Dry Low NO_x Combustor Turbulence on Vane Surface Heat Transfer. **125,** 221–231
Arts, Tony — (see Coton, Thomas) **125,** 281–290
Ashpis, David E. — (see Suzen, Y. B.) **125,** 455–464

Bakhtari, K. — (see Taslim, M. E.) **125,** 682–691
Barbot, Pierre A. — (see Ames, Forrest E.) **125,** 210–220
____ (see Ames, Forrest E.) **125,** 221–231
Barrett, Michael J., and Hollingsworth, D. Keith — Heat Transfer in Turbulent Boundary Layers Subjected to Free-Stream Turbulence—Part I: Experimental Results. **125,** 232–241
____ **, and Hollingsworth, D. Keith** — Heat Transfer In Turbulent Boundary Layers Subjected to Free-Stream Turbulence—Part II: Analysis and Correlation. **125,** 242–251
Baughn, James W. — (see Byerley, Aaron R.) **125,** 114–120
Beheim, Glenn M. — (see Hunter, Gary W.) **125,** 658–664
Beisheim, J. R., and Sinclair, G. B. — On the Three-Dimensional Finite Element Analysis of Dovetail Attachments. **125,** 372–379
Bhinder, F. S. — (see Ebaid, M. S. Y.) **125,** 598–606
Boyer, Keith M., and O'Brien, Walter F. — An Improved Streamline Curvature Approach for Off-Design Analysis of Transonic Axial Compression Systems. **125,** 475–481
Boyle, Robert — (see Kwak, Jae Su) **125,** 778–787
Brennan, G., Harvey, N. W., Rose, M. G., Fomison, N., and Taylor, M. D. — Improving the Efficiency of the Trent 500-HP Turbine Using Nonaxisymmetric End Walls—Part I: Turbine Design. **125,** 497–504
Bunker, Ronald S., and Donnelian, Katherine F. — Heat Transfer and Friction Factors for Flows Inside Circular Tubes With Concavity Surfaces. **125,** 665–672
____ (see Kwak, Jae Su) **125,** 778–787
____ (see Nirmalan, Nirm V.) **125,** 83–89
Byerley, Aaron R., Störmer, Oliver, Baughn, James W., Simon, Terrence W., Van Treuren, Kenneth W., and List, Jörg — Using Gurney Flaps to Control Laminar Separation on Linear Cascade Blades. **125,** 114–120

Caguiat, Daniel E. — Rolls Royce/Allison 501-K Gas Turbine Antifouling Compressor Coatings Evaluation. **125,** 482–488
Chaluvadi, V. S. P., Kalfas, A. I., Hodson, H. P., Ohyama, H., and Watanabe, E. — Blade Row Interaction in a High-Pressure Steam Turbine. **125,** 14–24
Chambers, Andrew C., Gillespie, David R. H., Ireland, Peter T., and Dailey, Geoffrey M. — A Novel Transient Liquid Crystal Technique to Determine Heat Transfer Coefficient Distributions and Adiabatic Wall Temperature in a Three-Temperature Problem. **125,** 538–546
Chana, Kam S., and Jones, Terry V. — An Investigation on Turbine Tip and Shroud Heat Transfer. **125,** 513–520
Chen, Liangyu — (see Hunter, Gary W.) **125,** 658–664
Chen, Meng-Yu — (see Liou, Tong-Miin) **125,** 565–574
Cheng, Dah Yu — (see Golomb, Richard) **125,** 128–132
Chew, J. W. — (see Gentilhomme, O.) **125,** 505–512
Chin, Hsiang-Jung — (see Hsieh, Shou-Shing) **125,** 609–622
Cho, Hyung Hee — (see Rhee, Dong Ho) **125,** 74–82
Choi, Byeong-Keun — (see Mignolet, Marc P.) **125,** 155–164
Choi, Jong Hyun — (see Rhee, Dong Ho) **125,** 74–82
Chow, Yi-Chih — (see Uzol, Oguz) **125,** 714–725
Colban, W. F., Lethander, A. T., Thole, K. A., and Zess, G. — Combustor Turbine Interface Studies—Part 2: Flow and Thermal Field Measurements. **125,** 203–209
____ **, Thole, K. A., and Zess, G.** — Combustor Turbine Interface Studies—Part 1: Endwall Effectiveness Measurements. **125,** 193–202
Coldrick, Simon, Ivey, Paul, and Wells, Roger — Considerations for Using 3-D Pneumatic Probes in High-Speed Axial Compressors. **125,** 149–154
Copenhaver, William W. — (see Gorrell, Steven E.) **125,** 328–335
____ (see Gorrell, Steven E.) **125,** 336–345
Corral, Roque, and Gisbert, Fernando — A Numerical Investigation on the Influence of Lateral Boundaries in Linear Vibrating Cascades. **125,** 433–441
Coton, Thomas, Arts, Tony, Lefebvre, Michaël, and Liamis, Nicolas — Unsteady and Calming Effects Investigation on a Very High-Lift LP Turbine Blade—Part I: Experimental Analysis. **125,** 281–290

Dailey, Geoffrey M. — (see Chambers, Andrew C.) **125,** 538–546
Darmofal, David L. — (see Garzon, Victor E.) **125,** 692–703
Deconinck, H. — (see de Vito, L.) **125,** 310–316
de la Calzada, P., and Alonso, A. — Numerical Investigation of Heat Transfer in Turbine Cascades With Separated Flows. **125,** 260–266
Denecke, J., Schramm, V., Kim, S., and Wittig, S. — Influence of Rub-Grooves on Labyrinth Seal Leakage. **125,** 387–393
Denton, John — (see Pullan, Graham) **125,** 291–297
Desse, Jean-Michel — (see Sieverding, Claus H.) **125,** 298–309

de Vito, L., Van den Braembussche, R. A., and Deconinck, H. — A Novel Two-Dimensional Viscous Inverse Design Method for Turbomachinery Blading. **125,** 310–316
Dittmar, J., Schulz, A., and Wittig, S. — Assessment of Various Film-Cooling Configurations Including Shaped and Compound Angle Holes Based on Large-Scale Experiments. **125,** 57–64
Donnelian, Katherine F. — (see Bunker, Ronald S.) **125,** 665–672
Dunkley, Michael — (see Pullan, Graham) **125,** 291–297
Dunn, M. G. — (see Haldeman, C. W.) **125,** 743–753

Ebaid, M. S. Y., Bhinder, F. S., and Khdairi, G. H. — A Unified Approach for Designing a Radial Flow Gas Turbine. **125,** 598–606
Ewins, D. J. — (see Petrov, E. P.) **125,** 364–371
_____ (see Petrov, E. P.) **125,** 623–631

Feiner, D. M. — (see Kenyon, J. A.) **125,** 352–363
Fomison, N. — (see Brennan, G.) **125,** 497–504

Gallus, Heinz E. — (see Ziegler, Kai U.) **125,** 173–182
_____ (see Ziegler, Kai U.) **125,** 183–192
Garzon, Victor E., and Darmofal, David L. — Impact of Geometric Variability on Axial Compressor Performance. **125,** 692–703
Gaugler, Raymond — (see Kwak, Jae Su) **125,** 778–787
Gentilhomme, O., Hills, N. J., Turner, A. B., and Chew, J. W. — Measurement and Analysis of Ingestion Through a Turbine Rim Seal. **125,** 505–512
Gillespie, David R. H. — (see Chambers, Andrew C.) **125,** 538–546
Gisbert, Fernando — (see Corral, Roque) **125,** 433–441
Goldstein, R. J. — (see Jin, P.) **125,** 521–528
_____ (see Papa, M.) **125,** 90–96
_____ (see Srinivasan, V.) **125,** 267–273
Golomb, Richard, Sahai, Vivek, and Cheng, Dah Yu — A New Tailpipe Design for GE Frame-Type Gas Turbines to Substantially Lower Pressure Losses. **125,** 128–132
Gord, Mahmood Farzaneh — (see Yan, Youyou) **125,** 641–647
Gori, F. — (see Papa, M.) **125,** 90–96
Gorrell, Steven E., Okiishi, Theodore H., and Copenhaver, William W. — Stator-Rotor Interactions in a Transonic Compressor— Part 1: Effect of Blade-Row Spacing on Performance. **125,** 328–335
_____, **Okiishi, Theodore H., and Copenhaver, William W.** — Stator-Rotor Interactions in a Transonic Compressor—Part 2: Description of a Loss-Producing Mechanism. **125,** 336–345
Graf, A. B. A. — (see Vogel, G.) **125,** 529–537
Griffin, J. H. — (see Kenyon, J. A.) **125,** 352–363
_____ (see Kenyon, J. A.) **125,** 673–681
Griffith, Todd S., Al-Hadhrami, Luai, and Han, Je-Chin — Heat Transfer in Rotating Rectangular Cooling Channels (AR=4) With Dimples. **125,** 555–563
Gritsch, Michael, Schulz, Achmed, and Wittig, Sigmar — Effect of Internal Coolant Crossflow on the Effectiveness of Shaped Film-Cooling Holes. **125,** 547–554

Haldeman, C. W., Krumanaker, M. L., and Dunn, M. G. — Influence of Clocking and Vane/Blade Spacing on the Unsteady Surface Pressure Loading for a Modern Stage and One-Half Transonic Turbine. **125,** 743–753
Han, Je-Chin — (see Griffith, Todd S.) **125,** 555–563
_____ (see Kwak, Jae Su) **125,** 648–657
_____ (see Kwak, Jae Su) **125,** 778–787
Harvey, N. W. — (see Brennan, G.) **125,** 497–504
_____ (see Miller, R. J.) **125,** 33–39
_____ (see Miller, R. J.) **125,** 40–47
He, L. — (see Li, H. D.) **125,** 632–640
Hedlund, Carl R. — (see Nirmalan, Nirm V.) **125,** 83–89
Hermanson, K., Kern, S., Picker, G., and Parneix, S. — Predictions of External Heat Transfer for Turbine Vanes and Blades With Secondary Flowfields. **125,** 107–113
Hills, N. J. — (see Gentilhomme, O.) **125,** 505–512
Hodson, H. P. — (see Chaluvadi, V. S. P.) **125,** 14–24
Hollingsworth, D. Keith — (see Barrett, Michael J.) **125,** 232–241
_____ (see Barrett, Michael J.) **125,** 242–251
Horwood, C. K. — (see Miller, R. J.) **125,** 1–13
Hoying, Donald A. — (see Polanka, Marc D.) **125,** 97–106
Hsieh, Shou-Shing, and Chin, Hsiang-Jung — Turbulent Flow in a Rotating Two Pass Ribbed Rectangular Channel. **125,** 609–622
Huang, P. G. — (see Suzen, Y. B.) **125,** 455–464
Hultgren, Lennart S. — (see Suzen, Y. B.) **125,** 455–464
Hunter, Gary W., Neudeck, Philip G., Okojie, Robert S., Beheim, Glenn M., Powell, J. A., and Chen, Liangyu — An Overview of High-Temperature Electronics and Sensor Development at NASA Glenn Research Center. **125,** 658–664
Hynes, T. P. — (see Liu, J. J.) **125,** 121–127

Iacovides, Hector — (see Okita, Yoji) **125,** 585–597
Ibaraki, Seiichi, Matsuo, Tetsuya, Kuma, Hiroshi, Sumida, Kunio, and Suita, Toru — Aerodynamics of a Transonic Centrifugal Compressor Impeller. **125,** 346–351
Ireland, Peter T. — (see Chambers, Andrew C.) **125,** 538–546
Ivey, Paul — (see Coldrick, Simon) **125,** 149–154

Jia, Rongguang, Saidi, Arash, and Sunden, Bengt — Heat Transfer Enhancement in Square Ducts With V-Shaped Ribs. **125,** 788–791(TB)
Jin, P., and Goldstein, R. J. — Local Mass/Heat Transfer on Turbine Blade Near-Tip Surfaces. **125,** 521–528
Jones, Terry V. — (see Chana, Kam S.) **125,** 513–520

Kais, Guven — (see Long, Christopher A.) **125,** 165–172
Kalfas, A. I. — (see Chaluvadi, V. S. P.) **125,** 14–24
Katz, Joseph — (see Uzol, Oguz) **125,** 714–725
Kenyon, J. A., and Griffin, J. H. — Experimental Demonstration of Maximum Mistuned Bladed Disk Forced Response. **125,** 673–681
_____, **Griffin, J. H., and Feiner, D. M.** — Maximum Bladed Disk Forced Response From Distortion of a Structural Mode. **125,** 352–363
Kern, S. — (see Hermanson, K.) **125,** 107–113
Khdairi, G. H. — (see Ebaid, M. S. Y.) **125,** 598–606
Kilic, Muhsin, and Owen, J. Michael — Computation of Flow Between Two Disks Rotating at Different Speeds. **125,** 394–400
Kim, S. — (see Denecke, J.) **125,** 387–393
Krumanaker, M. L. — (see Haldeman, C. W.) **125,** 743–753
Kuma, Hiroshi — (see Ibaraki, Seiichi) **125,** 346–351
Kwak, Jae Su, Ahn, Jaeyong, Han, Je-Chin, Lee, C. Pang, Bunker, Ronald S., Boyle, Robert, and Gaugler, Raymond — Heat Transfer Coefficients on the Squealer Tip and Near-Tip Regions of a Gas Turbine Blade With Single or Double Squealer. **125,** 778–787
_____, **and Han, Je-Chin** — Heat Transfer Coefficients and Film Cooling Effectiveness on the Squealer Tip of a Gas Turbine Blade. **125,** 648–657

Lee, C. Pang — (see Kwak, Jae Su) **125,** 778–787
Lefebvre, Michaël — (see Coton, Thomas) **125,** 281–290
Lethander, A. T. — (see Colban, W. F.) **125,** 203–209
Leylek, James H. — (see York, William D.) **125,** 252–259

Li, H. D., and He, L. — Blade Count and Clocking Effects in Three-Bladerow Interaction in a Transonic Turbine. **125,** 632–640
Li, Shuying — (see Zheng, Qun) **125,** 489–496
Li, Y. S. — (see Ning, W.) **125,** 25–32
Liamis, Nicolas — (see Coton, Thomas) **125,** 281–290
Ligrani, P. — Discussion: "Heat Transfer in Rotating Rectangular Cooling Channels (AR=4) With Dimples" (T. S. Griffith, L. Al. Hadhrami, and J.-C. Han., 2003, ASME J. Turbomach. **125**, pp. 555–563). **125,** 564(D)
Ligrani, P. M., and Mahmood, G. I. — Spatially Resolved Heat Transfer and Friction Factors in a Rectangular Channel With 45-Deg Angled Crossed-Rib Turbulators. **125,** 575–584
Lin, Y.-L. — (see Shih, T. I-P.) **125,** 48–56
Liou, Tong-Miin, Chen, Meng-Yu, and Wang, Yu-Ming — Heat Transfer, Fluid Flow, and Pressure Measurements Inside a Rotating Two-Pass Duct With Detached 90-Deg Ribs. **125,** 565–574
List, Jörg — (see Byerley, Aaron R.) **125,** 114–120
Liu, H. — (see Taslim, M. E.) **125,** 682–691
Liu, J. J., and Hynes, T. P. — The Investigation of Turbine and Exhaust Interactions in Asymmetric Flows— Blade-Row Models Applied. **125,** 121–127
Lock, Gary D. — (see Yan, Youyou) **125,** 641–647
Long, Christopher A., Turner, Alan B., Kais, Guven, Tham, Kok M., and Verdicchio, John A. — Measurement and CFD Prediction of the Flow Within an HP Compressor Drive Cone. **125,** 165–172

MacArthur, Charles D. — (see Polanka, Marc D.) **125,** 97–106
Mahmood, G. I. — (see Ligrani, P. M.) **125,** 575–584
Manna, Marcello, and Tuccillo, Raffaele — Improving the Aero-Thermal Characteristics of Turbomachinery Cascades. **125,** 317–327
Matsuo, Tetsuya — (see Ibaraki, Seiichi) **125,** 346–351
Meininger, Matthew — (see Polanka, Marc D.) **125,** 97–106
Meneveau, Charles — (see Uzol, Oguz) **125,** 714–725
Merchant, Ali — Aerodynamic Design and Performance of Aspirated Airfoils. **125,** 141–148
Mignolet, Marc P., and Choi, Byeong-Keun — Robust Optimal Positioning of Strain Gages on Blades. **125,** 155–164
_____ (see Rivas-Guerra, Alejandro J.) **125,** 442–454
Miller, R. J., Moss, R. W., Ainsworth, R. W., and Harvey, N. W. — Wake, Shock, and Potential Field Interactions in a 1.5 Stage Turbine—Part I: Vane-Rotor and Rotor-Vane Interaction. **125,** 33–39
_____, **Moss, R. W., Ainsworth, R. W., and Harvey, N. W.** — Wake, Shock, and Potential Field Interactions in a 1.5 Stage Turbine—Part II: Vane-Vane Interaction and Discussion of Results. **125,** 40–47
_____, **Moss, R. W., Ainsworth, R. W., and Horwood, C. K.** — Time-Resolved Vane-Rotor Interaction in a High-Pressure Turbine Stage. **125,** 1–13
Moon, H. K., O'Connell, T., and Sharma, R. — Heat Transfer Enhancement Using a Convex-Patterned Surface. **125,** 274–280
Moss, R. W. — (see Miller, R. J.) **125,** 1–13
_____ (see Miller, R. J.) **125,** 33–39
_____ (see Miller, R. J.) **125,** 40–47

Nayfeh, Samir A. — (see Al-Nahwi, Ammar A.) **125,** 405–415
_____ (see Al-Nahwi, Ammar A.) **125,** 416–424
Neudeck, Philip G. — (see Hunter, Gary W.) **125,** 658–664
Niehuis, Reinhard — (see Ziegler, Kai U.) **125,** 173–182
_____ (see Ziegler, Kai U.) **125,** 183–192
Nikitopoulos, D. E. — (see Agarwal, Peeyush) **125,** 726–733
Ning, W., Li, Y. S., and Wells, R. G. — Predicting Bladerow Interactions Using a Multistage Time-Linearized Navier-Stokes Solver. **125,** 25–32
Nirmalan, Nirm V., Bunker, Ronald S., and Hedlund, Carl R. — The Measurement of Full-Surface Internal Heat Transfer Coefficients for Turbine Airfoils Using a Nondestructive Thermal Inertia Technique. **125,** 83–89

O'Brien, Walter F. — (see Boyer, Keith M.) **125,** 475–481
O'Connell, T. — (see Moon, H. K.) **125,** 274–280
Ohyama, H. — (see Chaluvadi, V. S. P.) **125,** 14–24
Okiishi, Theodore H. — (see Gorrell, Steven E.) **125,** 328–335
_____ (see Gorrell, Steven E.) **125,** 336–345
Okita, Yoji, and Iacovides, Hector — Comparisons of High-Reynolds-Number EVM and DSM Models in the Prediction of Heat and Fluid Flow of Turbine Blade Cooling Passages. **125,** 585–597
Okojie, Robert S. — (see Hunter, Gary W.) **125,** 658–664
Owen, J. Michael — (see Kilic, Muhsin) **125,** 394–400
_____ (see Yan, Youyou) **125,** 641–647

Paduano, James D. — (see Al-Nahwi, Ammar A.) **125,** 405–415
_____ (see Al-Nahwi, Ammar A.) **125,** 416–424
Papa, M., Goldstein, R. J., and Gori, F. — Effects of Tip Geometry and Tip Clearance on the Mass/Heat Transfer From a Large-Scale Gas Turbine Blade. **125,** 90–96
Parneix, S. — (see Hermanson, K.) **125,** 107–113
Petrov, E. P., and Ewins, D. J. — Analytical Formulation of Friction Interface Elements for Analysis of Nonlinear Multi-Harmonic Vibrations of Bladed Disks. **125,** 364–371
_____, **and Ewins, D. J.** — Analysis of the Worst Mistuning Patterns in Bladed Disk Assemblies. **125,** 623–631
Picker, G. — (see Hermanson, K.) **125,** 107–113
Polanka, Marc D., Hoying, Donald A., Meininger, Matthew, and MacArthur, Charles D. — Turbine Tip and Shroud Heat Transfer and Loading—Part A: Parameter Effects Including Reynolds Number, Pressure Ratio, and Gas-to-Metal Temperature Ratio. **125,** 97–106
Powell, J. A. — (see Hunter, Gary W.) **125,** 658–664
Prasad, Anil — Evolution of Upstream Propagating Shock Waves From a Transonic Compressor Rotor. **125,** 133–140
Pullan, Graham, Denton, John, and Dunkley, Michael — An Experimental and Computational Study of the Formation of a Streamwise Shed Vortex in a Turbine Stage. **125,** 291–297

Rhee, Dong Ho, Choi, Jong Hyun, and Cho, Hyung Hee — Flow and Heat (Mass) Transfer Characteristics in an Impingement/Effusion Cooling System With Crossflow. **125,** 74–82
Richard, Hugues — (see Sieverding, Claus H.) **125,** 298–309
Rivas-Guerra, Alejandro J., and Mignolet, Marc P. — Maximum Amplification of Blade Response due to Mistuning: Localization and Mode Shape Aspects of the Worst Disks. **125,** 442–454
Rose, M. G. — (see Brennan, G.) **125,** 497–504

Sahai, Vivek — (see Golomb, Richard) **125,** 128–132
Saidi, Arash — (see Jia, Rongguang) **125,** 788–791(TB)
Saumweber, Christian, Schulz, Achmed, and Wittig, Sigmar — Free-Stream Turbulence Effects on Film Cooling With Shaped Holes. **125,** 65–73
Schramm, V. — (see Denecke, J.) **125,** 387–393
Schulz, A. — (see Dittmar, J.) **125,** 57–64
Schulz, Achmed — (see Gritsch, Michael) **125,** 547–554
_____ (see Saumweber, Christian) **125,** 65–73
Sharma, R. — (see Moon, H. K.) **125,** 274–280
Shih, T. I-P., and Lin, Y.-L. — Controlling Secondary-Flow Structure by Leading-Edge Airfoil Fillet and Inlet Swirl to Reduce Aerodynamic Loss and Surface Heat Transfer. **125,** 48–56

Sieverding, Claus H., Richard, Hugues, and Desse, Jean-Michel — Turbine Blade Trailing Edge Flow Characteristics at High Subsonic Outlet Mach Number. **125,** 298–309
Simon, Terrence W. — (see Byerley, Aaron R.) **125,** 114–120
Sinclair, G. B. — (see Beisheim, J. R.) **125,** 372–379
Sirakov, Borislav Todorov, and Tan, Choon-Sooi — Effect of Unsteady Stator Wake—Rotor Double-Leakage Tip Clearance Flow Interaction on Time-Average Compressor Performance. **125,** 465–474
Skoch, Gary J. — Experimental Investigation of Centrifugal Compressor Stabilization Techniques. **125,** 704–713
Snowsill, Guy D. — (see Young, Colin) **125,** 380–386
Srinivasan, V., and Goldstein, R. J. — Effect of Endwall Motion on Blade Tip Heat Transfer. **125,** 267–273
Störmer, Oliver — (see Byerley, Aaron R.) **125,** 114–120
Suita, Toru — (see Ibaraki, Seiichi) **125,** 346–351
Sumida, Kunio — (see Ibaraki, Seiichi) **125,** 346–351
Sun, Yufeng — (see Zheng, Qun) **125,** 489–496
Sunden, Bengt — (see Jia, Rongguang) **125,** 788–791(TB)
Suzen, Y. B., Huang, P. G., Hultgren, Lennart S., and Ashpis, David E. — Predictions of Separated and Transitional Boundary Layers Under Low-Pressure Turbine Airfoil Conditions Using an Intermittency Transport Equation. **125,** 455–464

Tan, Choon-Sooi — (see Sirakov, Borislav Todorov) **125,** 465–474
Taslim, M. E., Bakhtari, K., and Liu, H. — Experimental and Numerical Investigation of Impingement on a Rib-Roughened Leading-Edge Wall. **125,** 682–691
Taylor, M. D. — (see Brennan, G.) **125,** 497–504
Tham, Kok M. — (see Long, Christopher A.) **125,** 165–172
Thole, K. A. — (see Colban, W. F.) **125,** 193–202
_____ (see Colban, W. F.) **125,** 203–209
Tuccillo, Raffaele — (see Manna, Marcello) **125,** 317–327
Turner, A. B. — (see Gentilhomme, O.) **125,** 505–512
Turner, Alan B. — (see Long, Christopher A.) **125,** 165–172
Tyagi, Mayank, and Acharya, Sumanta — Large Eddy Simulation of Film Cooling Flow from an Inclined Cylindrical Jet. **125,** 734–742

Uzol, Oguz, Chow, Yi-Chih, Katz, Joseph, and Meneveau, Charles — Average Passage Flow Field and Deterministic Stresses in the Tip and Hub Regions of a Multistage Turbomachine. **125,** 714–725

Van den Braembussche, R. A. — (see de Vito, L.) **125,** 310–316
Van Treuren, Kenneth W. — (see Byerley, Aaron R.) **125,** 114–120
Verdicchio, John A. — (see Long, Christopher A.) **125,** 165–172
Vogel, G., Graf, A. B. A., von Wolfersdorf, J., and Weigand, B. — A Novel Transient Heater-Foil Technique for Liquid Crystal Experiments on Film-Cooled Surfaces. **125,** 529–537
Volino, Ralph J. — Passive Flow Control on Low-Pressure Turbine Airfoils. **125,** 754–764
_____ Separation Control on Low-Pressure Turbine Airfoils Using Synthetic Vortex Generator Jets. **125,** 765–777
von Wolfersdorf, J. — (see Vogel, G.) **125,** 529–537

Wang, Chao — (see Ames, Forrest E.) **125,** 210–220
_____ (see Ames, Forrest E.) **125,** 221–231
Wang, Yu-Ming — (see Liou, Tong-Miin) **125,** 565–574
Wang, Yunhui — (see Zheng, Qun) **125,** 489–496
Watanabe, E. — (see Chaluvadi, V. S. P.) **125,** 14–24
Weigand, B. — (see Vogel, G.) **125,** 529–537
Wells, R. G. — (see Ning, W.) **125,** 25–32
Wells, Roger — (see Coldrick, Simon) **125,** 149–154
Wilson, Michael — (see Yan, Youyou) **125,** 641–647
Wittig, S. — (see Denecke, J.) **125,** 387–393
_____ (see Dittmar, J.) **125,** 57–64
Wittig, Sigmar — (see Gritsch, Michael) **125,** 547–554
_____ (see Saumweber, Christian) **125,** 65–73

Xu, L. — Assessing Viscous Body Forces for Unsteady Calculations. **125,** 425–432

Yan, Youyou, Gord, Mahmood Farzaneh, Lock, Gary D., Wilson, Michael, and Owen, J. Michael — Fluid Dynamics of a Pre-Swirl Rotor-Stator System. **125,** 641–647
York, William D., and Leylek, James H. — Leading-Edge Film-Cooling Physics—Part III: Diffused Hole Effectiveness. **125,** 252–259
Young, Colin, and Snowsill, Guy D. — CFD Optimization of Cooling Air Offtake Passages Within Rotor Cavities. **125,** 380–386

Zess, G. — (see Colban, W. F.) **125,** 193–202
_____ (see Colban, W. F.) **125,** 203–209
Zheng, Qun, Sun, Yufeng, Li, Shuying, and Wang, Yunhui — Thermodynamic Analyses of Wet Compression Process in the Compressor of Gas Turbine. **125,** 489–496
Ziegler, Kai U., Gallus, Heinz E., and Niehuis, Reinhard — A Study on Impeller-Diffuser Interaction—Part I: Influence on the Performance. **125,** 173–182
_____**, Gallus, Heinz E., and Niehuis, Reinhard** — A Study on Impeller-Diffuser Interaction—Part II: Detailed Flow Analysis. **125,** 183–192